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Patent

Attorney Docket No. 11034US03 / 100-248.C1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

Better and Carroll

Serial No.: Not yet assigned

Filed: herewith

For: FUSION PROTEINS AND
POLYNUCLEOTIDES ENCODING
GELONIN SEQUENCES

Examiner: Not yet assigned

Group Art Unit: Not yet assigned

CERTIFICATE OF EXPRESS MAILING

I hereby certify that this document is being deposited with the United States Postal Service on July 6, 2000 in an envelope addressed to BOX PATENT APPLICATION, Assistant Commissioner for Patents, Washington, D.C. 20231 utilizing the "Express Mail Post Office to Addressee" service of the United States Postal Service under Mailing Label No. EL567394949US.

Janet M. McNicholas

Janet M. McNicholas, Ph.D.

Registration No. 32,918

REQUEST TO USE COMPUTER READABLE
SEQUENCE LISTING DISKETTE
FORM FROM ANOTHER APPLICATION

BOX PATENT APPLICATION
Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

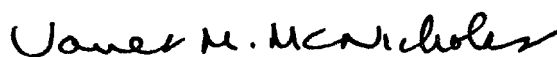
Applicants request entry of the identical computer readable form from a related application. Specifically, the computer-readable form of the Sequence Listing in the above-identified application is identical to the Sequence Listing in Application Serial No. 09/136,389, filed August 18, 1998. In accordance with 37 C.F.R. §1.821(e), please use the computer-readable form of the Sequence Listing filed in that application as the computer-readable form in the instant application. It is understood that the Patent and Trademark Office will make the necessary change in application number and filing date for the computer-readable form of the

09/610,838
7-6-00
R-60
09/610838
AU1648
C1435
6,146,850

Sequence Listing that will be used in the instant application. A paper copy of the sequence listing is included in the originally-filed specification of the instant application.

Respectfully submitted,

DATED: July 6, 2000


Janet M. McNicholas, Ph.D.
Reg. No. 32,918

McAndrews, Held & Malloy, Ltd.
500 West Madison Street, Suite 3400
Chicago, Illinois 60661
(312) 775-8000

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/610,838DATE: 11/03/2000
TIME: 22:56:55

INPUT SET: S36067.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

(1) General Information:

(i) APPLICANT: Better, Marc D.
Carroll, Stephen F.
Studnika, Gary M.

ENTERED

(ii) TITLE OF INVENTION: Immunotoxins Comprising Ribosome-Inactivating
Proteins

(iii) NUMBER OF SEQUENCES: 173

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: McAndrews, Held & Malloy, Ltd.
(B) STREET: 500 West Madison Street, 34th floor
(C) CITY: Chicago
(D) STATE: Illinois
(E) COUNTRY: USA
(F) ZIP: 60661

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US 09/610,838
(B) FILING DATE: 06-JUL-2000
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US/09/136,389
(B) FILING DATE: 18-AUG-1998

(A) APPLICATION NUMBER: 08/646,360
(B) FILING DATE: 13-MAY-1996

(A) APPLICATION NUMBER: PCT/US94/05348
(B) FILING DATE: 12-MAY-1994

(viii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/064,691
(B) FILING DATE: 12-MAY-1993

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PATENT APPLICATION US/09/610,838DATE: 11/03/2000
TIME: 22:56:55

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47 (vii) PRIOR APPLICATION DATA:
48 (A) APPLICATION NUMBER: US 07/988,430
49 (B) FILING DATE: 09-DEC-1992
50
51 (vii) PRIOR APPLICATION DATA:
52 (A) APPLICATION NUMBER: US 07/901,707
53 (B) FILING DATE: 19-JUN-1992
54
55 (vii) PRIOR APPLICATION DATA:
56 (A) APPLICATION NUMBER: US 07/787,567
57 (B) FILING DATE: 04-NOV-1991
58
59 (viii) ATTORNEY/AGENT INFORMATION:
60 (A) NAME: McNicholas, Janet M.
61 (B) REGISTRATION NUMBER: 32,918
62 (C) REFERENCE/DOCKET NUMBER: 200-70.P4
63
64 (ix) TELECOMMUNICATION INFORMATION:
65 (A) TELEPHONE: 312/707-8889
66 (B) TELEFAX: 312/707-9155
67 (C) TELEX: 650 388-1248
68
69 (2) INFORMATION FOR SEQ ID NO:1:
70
71 (i) SEQUENCE CHARACTERISTICS:
72 (A) LENGTH: 267 amino acids
73 (B) TYPE: amino acid
74 (D) TOPOLOGY: linear
75
76 (ii) MOLECULE TYPE: protein
77
78 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
79
80 Ile Phe Pro Lys Gln Tyr Pro Ile Ile Asn Phe Thr Thr Ala Gly Ala
81 1 5 10 15
82
83
84 Thr Val Gln Ser Tyr Thr Asn Phe Ile Arg Ala Val Arg Gly Arg Leu
85 20 25 30
86
87
88 Thr Thr Gly Ala Asp Val Arg His Glu Ile Pro Val Leu Pro Asn Arg
89 35 40 45
90
91
92 Val Gly Leu Pro Ile Asn Gln Arg Phe Ile Leu Val Glu Leu Ser Asn
93 50 55 60
94
95
96 His Ala Glu Leu Ser Val Thr Leu Ala Leu Asp Val Thr Asn Ala Tyr
97 65 70 75 80
98
99

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100 Val Val Gly Tyr Arg Ala Gly Asn Ser Ala Tyr Phe Phe His Pro Asp
101                               85                               90                               95
102
103
104 Asn Gln Glu Asp Ala Glu Ala Ile Thr His Leu Phe Thr Asp Val Gln
105                               100                               105                               110
106
107
108 Asn Arg Tyr Thr Phe Ala Phe Gly Gly Asn Tyr Asp Arg Leu Glu Gln
109                               115                               120                               125
110
111
112 Leu Ala Gly Asn Leu Arg Glu Asn Ile Glu Leu Gly Asn Gly Pro Leu
113                               130                               135                               140
114
115
116 Glu Glu Ala Ile Ser Ala Leu Tyr Tyr Tyr Ser Thr Gly Gly Thr Gln
117                               145                               150                               155                               160
118
119
120 Leu Pro Thr Leu Ala Arg Ser Phe Ile Ile Cys Ile Gln Met Ile Ser
121                               165                               170                               175
122
123
124 Glu Ala Ala Arg Phe Gln Tyr Ile Glu Gly Glu Met Arg Thr Arg Ile
125                               180                               185                               190
126
127
128 Arg Tyr Asn Arg Arg Ser Ala Pro Asp Pro Ser Val Ile Thr Leu Glu
129                               195                               200                               205
130
131
132 Asn Ser Trp Gly Arg Leu Ser Thr Ala Ile Gln Glu Ser Asn Gln Gly
133                               210                               215                               220
134
135
136 Ala Phe Ala Ser Pro Ile Gln Leu Gln Arg Arg Asn Gly Ser Lys Phe
137                               225                               230                               235                               240
138
139
140 Ser Val Tyr Asp Val Ser Ile Leu Ile Pro Ile Ile Ala Leu Met Val
141                               245                               250                               255
142
143
144 Tyr Arg Cys Ala Pro Pro Pro Ser Ser Gln Phe
145                               260                               265
146

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(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

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PATENT APPLICATION US/09/610,838DATE: 11/03/2000
TIME: 22:56:56

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153
154 (ii) MOLECULE TYPE: protein
155
156 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
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158 Gly Leu Asp Thr Val Ser Phe Ser Thr Lys Gly Ala Thr Tyr Ile Thr
159 1 5 10 15
160
161
162 Tyr Val Asn Phe Leu Asn Glu Leu Arg Val Lys Leu Lys Pro Glu Gly
163 20 25 30
164
165
166 Asn Ser His Gly Ile Pro Leu Leu Arg Lys Lys Cys Asp Asp Pro Gly
167 35 40 45
168
169
170 Lys Cys Phe Val Leu Val Ala Leu Ser Asn Asp Asn Gly Gln Leu Ala
171 50 55 60
172
173
174
175 Glu Ile Ala Ile Asp Val Thr Ser Val Tyr Val Val Gly Tyr Gln Val
176 65 70 75 80
177
178
179 Arg Asn Arg Ser Tyr Phe Phe Lys Asp Ala Pro Asp Ala Ala Tyr Glu
180 85 90 95
181
182
183 Gly Leu Phe Lys Asn Thr Ile Lys Thr Arg Leu His Phe Gly Gly Ser
184 100 105 110
185
186
187 Tyr Pro Ser Leu Glu Gly Glu Lys Ala Tyr Arg Glu Thr Thr Asp Leu
188 115 120 125
189
190
191 Gly Ile Glu Pro Leu Arg Ile Gly Ile Lys Lys Leu Asp Glu Asn Ala
192 130 135 140
193
194
195 Ile Asp Asn Tyr Lys Pro Thr Glu Ile Ala Ser Ser Leu Leu Val Val
196 145 150 155 160
197
198
199 Ile Gln Met Val Ser Glu Ala Ala Arg Phe Thr Phe Ile Glu Asn Gln
200 165 170 175
201
202
203 Ile Arg Asn Asn Phe Gln Gln Arg Ile Arg Pro Ala Asn Asn Thr Ile
204 180 185 190
205

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206
207 Ser Leu Glu Asn Lys Trp Gly Lys Leu Ser Phe Gln Ile Arg Thr Ser
208 195 200 205
209
210
211 Gly Ala Asn Gly Met Phe Ser Glu Ala Val Glu Leu Glu Arg Ala Asn
212 210 215 220
213
214
215 Gly Lys Lys Tyr Tyr Val Thr Ala Val Asp Gln Val Lys Pro Lys Ile
216 225 230 235 240
217
218
219 Ala Leu Leu Lys Phe Val Asp Lys Asp Pro Lys
220 245 250
221
222 (2) INFORMATION FOR SEQ ID NO:3:
223
224 (i) SEQUENCE CHARACTERISTICS:
225 (A) LENGTH: 280 amino acids
226 (B) TYPE: amino acid
227 (D) TOPOLOGY: linear
228
229 (ii) MOLECULE TYPE: protein
230
231 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
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233 Ala Ala Lys Met Ala Lys Asn Val Asp Lys Pro Leu Phe Thr Ala Thr
234 1 5 10 15
235
236 Phe Asn Val Gln Ala Ser Ser Ala Asp Tyr Ala Thr Phe Ile Ala Gly
237 20 25 30
238
239
240 Ile Arg Asn Lys Leu Arg Asn Pro Ala His Phe Ser His Asn Arg Pro
241 35 40 45
242
243 Val Leu Pro Pro Val Glu Pro Asn Val Pro Pro Ser Arg Trp Phe His
244 50 55 60
245
246 Val Val Leu Lys Ala Ser Pro Thr Ser Ala Gly Leu Thr Leu Ala Ile
247 65 70 75 80
248
249 Arg Ala Asp Asn Ile Tyr Leu Glu Gly Phe Lys Ser Ser Asp Gly Thr
250 85 90 95
251
252
253 Trp Trp Glu Leu Thr Pro Gly Leu Ile Pro Gly Ala Thr Tyr Val Gly
254 100 105 110
255
256
257
258

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION *US/09/610,838*

DATE: 11/03/2000
TIME: 22:56:57

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